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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-07-07-09 **Date: 11-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to main and cross roads of Amba Bhavani layout in Attur Ward no.03 (Providing RCC drain in Ambabhavani nagara of Attur Ward No:03)
Agency	:	Sri. Tulasiram reddy, No.131, 4th cross, Kaverinagara, Kavala byrasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/59/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-2018
Sample ID No	:	2018-07-07-09 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.28	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-07-09** **Date: 16-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to main and cross roads of Amba Bhavani layout in Attur Ward no.03 (Providing RCC drain in Ambabhavani nagara of Attur Ward No:03)
Agency	:	Sri. Tulasiram reddy, No.131, 4th cross, Kaverinagara, Kavala byrasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/59/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-2018
Sample ID No	:	2018-07-07-09 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-07-09** **Date: 10-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to main and cross roads of Amba Bhavani layout in Attur Ward no.03 (Providing RCC drain in Ambabhavani nagara of Attur Ward No:03)
Agency	:	Sri. Tulasiram reddy, No.131, 4th cross, Kaverinagara, Kavala byrasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/59/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	07-07-2018
Sample ID No	:	2018-07-07-09 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	573	573	3.8	96.2	90-100
3	20 mm	5473	6046	40.3	59.7	30-70
4	10 mm	5198	11244	75.0	25.0	10-35
5	4.75 mm	3521	14765	98.4	1.6	0-5
6	Pan	235	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-07-09** **Date: 10-07-2018**

Sample ID No : 2018-07-07-09 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.15	–

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-07-09** **Date: 10-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to main and cross roads of Amba Bhavani layout in Attur Ward no.03 (Providing RCC drain in Ambabhavani nagara of Attur Ward No:03)
Agency	:	Sri. Tulasiram reddy, No.131, 4th cross, Kaverinagara, Kavala byrasandra, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/59/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-2018
Sample ID No	:	2018-07-07-09 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	163	163	3.3	96.7	90-100
3	10 mm	2274	2437	48.7	51.3	25-55
4	4.75 mm	2246	4683	93.7	6.3	0-10
5	Pan	317	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-07-09** **Date: 10-07-2018**

Sample ID No : 2018-07-07-09 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-07-07-09** **Date: 10-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to main and cross roads of Amba Bhavani layout in Attur Ward no.03 (Providing RCC drain in Ambabhavani nagara of Attur Ward No:03)
Agency	:	Sri. Tulasiram reddy, No.131, 4th cross, Kaverinagara, Kavala byrasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/59/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-2018
Sample ID No	:	2018-07-07-09 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	07-07-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	18	18	1.8	98.2	90-100	90-100	90-100	95-100
3	2.36 mm	109	127	12.7	87.3	60-95	75-100	85-100	95-100
4	1.18 mm	261	388	38.8	61.2	30-70	55-90	75-100	90-100
5	600 micron	187	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	216	791	79.1	20.9	5-20	8-30	12-40	15-50
7	150 micron	125	916	91.6	8.4	0-10	0-10	0-10	0-15
8	Pan	84	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-07-09

Date: 10-07-2018

Sample ID No : 2018-07-07-09 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.18	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	7.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-07-07-09** **Date: 10-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to main and cross roads of Amba Bhavani layout in Attur Ward no.03 (Providing RCC drain in Ambabhavani nagara of Attur Ward No:03)
Agency	:	Sri. Tulasiram reddy, No.131, 4th cross, Kaverinagara, Kavala byrasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/59/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-2018
Sample ID No	:	2018-07-07-09 /05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-07-2018

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.39	535	647	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	553	567	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.889	565	678	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2018-07-07-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to main and cross roads of Amba Bhavani layout in Attur Ward no.03 (Providing RCC drain in Ambabhavani nagara of Attur Ward No:03)
Agency	:	Sri. Tulasiram reddy, No.131, 4th cross, Kaverinagara, Kavala byrasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/59/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-2018
Sample ID No	:	2018-07-07-09 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	09/07/2018

Date: 13-07-2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.25	100.64	1.342	4447	69.8	15.7	14.6	18.2
2	Cover Slab-2	75.24	100.53	1.327	4445	73.5	16.5	15.4	19.2
3	Cover Slab-3	75.17	100.25	1.368	4437	73.6	16.6	15.4	19.3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-07-13-06** **Date: 16/07/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing asphalting to main and cross roads of Amba Bhavani layout in Attur Ward no.03 (Providing RCC drain in Ambabhavani nagara of Attur Ward No:03)
Agency	:	Sri. Tulasiram reddy, No.131, 4th cross, Kaverinagara, Kavala byrasandra, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/59/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-2018
Sample ID No	:	2018-07-13-06 /01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	09/07/2018	16/07/2018	149.22 X 150.54 X 149.22	22464	8.265	386.4	17.2	17.6
2	M20 Concrete	M20	09/07/2018	16/07/2018	150.65 X 150.34 X 151.32	22649	8.252	398.6	17.6	
3	M20 Concrete	M20	09/07/2018	16/07/2018	151.88 X 150.15 X 150.11	22805	8.249	408.2	17.9	

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